

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: 6AG7's in parallel
Message-ID: <199609092128.RAA11778@mail.peterboro.net>

Deane D McIntyre VE6BP0 asked about 6AG7's in parallel.....

When I was a kid, I used to get VE7US, Wilf all upset on 75 ssb by using 24 of them with sockets tight fitted together on a copper sheet to improve the grounding. Cathodes to the input (which was 4 more of them) and plates to the antenna through a .001 broadcast transmitter ceramic job with a parallel tuned circuit in series with the B+ which was about 1100V under load. Output was adequate, I used an ammeter out of a battery charger for a plate meter. Available RFChokes just did not have low enough resistance for the two amps plus. I had lots of 660VAC capacitors in the power supply, they did not seem to mind the 1100Vdc, it seems 660×1.414 was close enough, at least it was back then.

I must have been close on the match of the plates to the 50 ohm antenna, there was less output at 20 and 28 tubes. The tuning capacitor in the output network did not show any visible effect, so I left it were I thought resonance was....

Watch out for the filament current, its up nearly to 15 amps or so, which means you have to use real wire for the trip from the transformer to the tubes.

Wilf was not so upset with the amplifier, just my call, which was ve5pu in those days.. an odorous situation one might say....

Good Luck

Larry
va3lk / wa3zia

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Mike Maloney <ac5p@ionet.net>
Subject: AF Transf. Wanted
Message-ID: <199609082156.QAA03858@mail.ionet.net>

Looking for interstage audio transformer...1-3 ratio, single plate to p/p grids like Stancor A-53-C or equiv. Anyone have one in their junkbox they would part with reasonable?

Thanks and 73,

Mike ac5p@ionet.net

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: am I wearing the "KICK ME" sign..??
Message-ID: <01I98UZ38I0Y00317X@ACS.EKU.EDU>

After further consideration I went ahead on got the ancient Super Pro and Viking II that I saw at Louisville (Steve Ellington's stuff), and in spite of his corrections, I STILL think they were stored on a barge - probably a sunken one - at least for a while ;)

What I needed: more projects! Well, with all I have been reading here about rust removal and capacitor replacement, these babies may never LOOK like much, but they WILL be back on the air - eventually!

Went to Steve's home to get them - very nice place, and a big, lovely yard with (of course) two towers supporting almost-invisible wire antennas. The Super Pro is now in the garage (in case rust is contagious), and the Viking will be the next project once I finish the AF-68 (tonight). All the pieces are there - at least almost. You'll hear more from these!

My radio club kids are going to LEARN something from these!

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: AN/PRC-40 AX
Message-ID: <960909050949_75121.100_IHV39-1@CompuServe.COM>

Anyone have info on this transceiver? Looking for basic info--freq range, power etc.

Regards from Hawaii,
Raymond J. Cote

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: dma@IslandNet.com (Jan Skirrow)

Subject: Re: BA Tube Exchange
Message-ID: <m0uzqR9-000VtUC@comm.amtsgi.bc.ca>

>BTW, I have about 50 to 75 television tubes which I separated from my main
>tube inventory. All of these are series filament string types (ie 3,4,5,
>8,9,10,13,17, etc..voltage filaments) Are TV tubes tubes with non-standard
>filament ratings of any value these days?

>

>Regards,

>~~~~~

>Jerry Proc VE3FAB

>E-mail: jproc@worldlinx.com

>HMCS Haida, Toronto Ontario

>'Looking for an AN/SRC501'

Hi Jerry ...

There have been posts here and elsewhere about these old TV tubes. The consensus is that they're worthless. However, the same thing might've been said a few years ago about some things we now hunt for diligently.

There is a store in Vancouver that specializes in odd things from the 30s, 40s and 50s. Stuff like old juke boxes, neon signs, light fixtures and, yes, tube radios and televisions. He has (or had the last time I was there) one of those amazing "space age" Philco tvs with the picture tube mounted in its own housing on top of the main cabinet.

Anyway, I expressed some surprise at the number of 50s/60s vintage ac/dc "portable" televisions he had in. They were of the kind that servicemen hated to work on, because they didn't have adequate ventilation, broke down repeatedly, and were very compact for the time. They used, of course, the kind of tubes you spoke of. The owner replied that there was a sharply growing demand for these old sets as "decorator" items. But people preferred them to work and he was finding parts hard to come by!

So, those tubes may not be worth much now, but they might be in future. I'd hang on to them, unless you simply don't have room!

Jan Skirrow, VE7DJX
dma@islandnet.com
Duncan, British Columbia

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: sinned@VNET.IBM.COM
Subject: boarding information request

Message-ID: <199609092226.RAA14774@uro.theporch.com>

I have a friend who wants to subscribe to our list and we can't get the wording right. Will someone who knows please send "How to subscribe to boatanchors in one easy step" information to : michael.hopkins@drig.com I personally recommend him to the present crew for long term assignment to anchor weighing!

Thanks
Dennis W5FRS

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: End of the Valiant Saga, Maybe?
Message-ID: <UPMAIL03.199609082256260828@msn.com>

Gang, the winner of the help Al fix the Valiant is: Drumm RoLL
Dennis Clemenson on the list.
He suggested I had a short , either from the vapors or eternally to one of the 866A rectifiers. Heeding his advise, I bought a NIB 866A from Vintage Sounds this afternoon, plugged in and all seems well. Shit cost 23 Bucks but. They now flame blue and that is the end of this Saga. I Hope.

Thanks to all that helped with advice, etc.
Thats what this list is for.
Now to spend some time getting a license, BTW, can I go strait to General?

Have Fun All
fritsche@msn.com

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: RE: Energy Storage Capacitors (and Photoflash Capacitors)
Message-ID: <Pine.ULT.3.91.960909184037.6941C-1000000@dua150.kpt.emn.com>

On Sat, 31 Aug 1996, Richard George, K6KWQ, asked about energy storage capacitors for use in high voltage power supplies.

> At the local swapmeet today i ran across a table full of "energy storage
> capacitors" These were oil filled (no pcb's) marked 35 ufd @ 5.1 KVDC.
> They were very small for that rating, oval shaped about 1"x2"x 7" tall.

I would be HIGHLY suspicious about using these capacitors in typical amateur high voltage power supplies, at least at this voltage level. Tom, AA6BR/7, and Joe, K3ICO, mentioned their use of similar capacitors - but

at considerably lower voltages.

These capacitors are physically quite small for their capacitance. This should immediately tell you something. They are designed for very intermittent service. While designed to dump their energy quickly, they are not capable of handling high ripple currents like those found in power supplies.

I have two "laser discharge" capacitors I bought surplus from Sangamo in the early 1970's. These were designed to power the flash tubes of exceptionally high power ruby lasers. The listed ratings were 16 uF @ 5 KV, and 18 uF @ 10 KV. To determine their ratings as conventional capacitors, I called an engineer at Sangamo. He told me that these particular units were capable of a rather high duty cycle and they would handle 4 and 8 KV in power supply applications respectively quite well. [The big one, which weighs about 75 pounds, has 0.04 uH series inductance!]

HOWEVER, based on size, the units Dick asked about are quite different. My smaller capacitor has about half the capacitance of the units Dick described - but it is physically about eight times larger. Based on this, I would be EXTREMELY wary of running Dick's capacitors in any continuous service application. Without additional information from their manufacturer, I would hesitate to run them over 1.5 KV - and then I would be extremely careful about monitoring their temperature.

The problem here is the ripple current capacity of the capacitors. In power supply applications, the capacitor will have to handle considerable ripple current and handle it continuously.

The same thing holds true for electrolytic capacitors. Photoflash capacitors are still readily available on the surplus market. It is tempting to use these in place of conventional high voltage electrolytics. But these suffer from the same problem. They are designed for very intermittent service. They can hold DC at their voltage rating with no problem, but if asked to handle much ripple current you can expect them to fail rapidly. Photoflash capacitors are very popular with the golden-eared audiophile crowd because they pack a lot of capacitance into a small volume. What saves them in the typical audiophile application is that in their never ending effort to reduce power supply output impedances, these same audio nuts parallel lots of these capacitors. With a few thousand microfarads of output capacitance, each capacitor carries a small fraction of the true ripple current. In their ignorance, the audiophiles have saved themselves - that is, until one blows! Then the entire capacitor bank discharges through the shorted one and the results are spectacular (and smelly). For ham use, don't expect to substitute photoflash capacitors for regular electrolytics (matching them farad by farad) and expect them to last long.

I guess the final thing here is to remember the old S-F cliché: TANSTAAFL
- There ain't no such thing as a free lunch! Make the capacitor small and
it cannot handle much ripple current. But that is not to say these
capacitors have no value. Derate them adequately and they should do just
fine.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Richard A. George" <wa6jox@rain.org>
Subject: f s items
Message-ID: <Pine.SUN.3.94.960908133954.594G-1000000@coyote.rain.org>

I have the following items for sale or trade. all prices include UPS
shipping CONUS. Please e-mail direct

over 800ea xtals from 100khz to 125 mhz, most in Hc6u holders please do
not ask for specific freq. \$40.00 for the
lot.

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Eugene Rippen <soundval@foothill.net>
Subject: fs BOATANCHOR!!!
Message-ID: <3234BF22.631B@foothill.net>

I have got to get this out of the front of my garage. I have to move it
to get to my cabinet of tubes. I regularly say bad things to it.

Globe King 400B

Modified in that it has 4-65A's (2) as finals. Transformers all
look original. Front is fair in appearance. The top has some
paint off and a little rust there. Has rollers. Has 80 meter
coils in it. I will take about 75 cents per POUND. Reduced to:
\$225 and its yours. UPU only! If the buyer is reasonably decent
to me I will help load.

Eugene Rippen

105 Donnington
Auburn, CA 95603

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Eugene Rippen <soundval@foothill.net>
Subject: FS Heathkit DX40 & Twoer
Message-ID: <3234BBF8.2246@foothill.net>

I have the following for sale:

Heathkit DX-40 very good looking. Untested. \$60.

Heathkit HW-30 Twoer. front is very good. Sides and top are very good to good. Works. Has original mic. \$45.

Plus shipping costs.

Eugene Rippen
105 Donnington
Auburn, CA 95603 soundval@foothill.net

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
Subject: FS: Hammarlund HQ-110A

HQ-110A with working clock and original manual. Very Good to excellent cosmetically. Electrically very good.

\$150 Plus Shipping. Prefer pickup. Will deliver within 150 miles of metro St. Louis.

Mike (kb9vu@aol.com)
Florissant, MO
(314) 831-8174

----- Forwarded message ends here -----

* * * * *
* NOTE: The message above is a re-post from the newsgroup rec.radio.swap. *
* All replies *must* go to the person making the post, not me. *
* * * * *

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Dave Hutchison <djhutch@concentric.net>
Subject: FS: NC-270
Message-ID: <32332B3B.7025@concentric.net>

I have a National NC-270 receiver for sale. "Cosmic blue" in color, double conversion, selectivity adjustable from 5 kcto 600 kHz. Cosmetic condition is about an 8.75 on a scale of ten. Only testing done is to plug it in and listen to it. Everything seems to work just fine.

Comes with original manual and speaker. Both the receiver and speaker have can be tilted by the nifty flip feet on each.

Price: \$200 plus shipping from Indiana

73's

Dave Hutchison KW9U

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: MEC <danmec@inet.uni-c.dk>
Subject: FS: 160m coil for BC-610
Message-ID: <Pine.3.89.9609091048.A10788-0100000@inet.uni-c.dk>

Somebody on the list posted a wanted note but I cannot find it. Anyway, I have found the 1.5-2.0 MHz tank coil for the BC-610 transmitter part of SCR-399 set.

Need 35 dlrs incl. shipping from Copenhagen.

73 Rag OZ8R0

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Bill Moore <bill_moore@mevatec.com>
Subject: FS:** Old Radios, Ham books, misc
Message-ID: <960908.173916@mevatec.com>

	Subject:	Time:4:59
OFFICE MEMO	FS:** Old Radios, Ham books, misc	Date:9/8/96

You can call at 205 880 1207 for further info or email me at work
bill_moore@mevatec.com. Trades for Pilot Items are always welcome. Prices are

plus shipping. Thanks

1. Zenith NOS 50a1 ballast tube, \$12
2. Truetone Jr, white plaskon,very small prewar set, cab. cracked badly, complete except for vol. knob. \$45
3. RA DA instruction sheet for 1922 Westinghouse, Full color reprint \$5 pp
- 4."The Cathode-Ray Tube at Work" John Rider 1935 nice \$9
5. "The Principles of Radio" Henney 1938 \$9
6. B&K 707 tube tester \$55
7. Zenith Transoceanic 7G605 service data \$4 inclues ship.
8. RCA 8-14 tombstone, large table set with 3 bands and 8 tubes. In nice original condition with new dial, working \$125
9. Floor Chrome mike stand, extra cast iron base, all \$10
10. Stromberg-Carlson Oak ringer box in very nice condition \$25
11. ARRL Handbooks: 42-no back cover \$10, 52-56-nice condition \$15 each, 64-67-71-nice condition \$10 each
12. WE transistor PA Amp. Looks to be new. Comes with NOS pair of 8" outside university PA horns. \$22
13. Gooseneck springloaded clampmount workbench lamps. good condition and working. No bulbs \$10 ea
14. Nobatron DC power supply 18-36 VDC 1.5 amp \$12
15. Sola Power conditioner. 1.25 amp \$7 ea
16. ARRL book "A course in Radio Fundamentals 1942 nice \$12
17. Military technical manual TM 11-1053 for RC 68/68a \$5
18. Bogen Power amp cha-33 with phono built into cage \$22
19. Telefunken Concerto, large german table model. The row of small tone control pushbuttons is missing, \$80
20. AK 165 Cathedral grill cloth. This is the original grill cloth on a hard cardboard backing. very nice condiion \$14
21. Early FM receiver for cars, Cartape brand \$15
22. RCA Receiving Tube Characteristics 1946 \$5

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Fwd: FS: Hammarlund HQ-110A
Message-ID: <59879.ddillman@igc.apc.org>

----- Forwarded message begins here -----

From: KB9VU <kb9vu@aol.com >
Newsgroups: usenet.rec.radio.swap
From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Al Klase <alklase@prolog.net>
Subject: Gaithersburg Attendees
Message-ID: <199609090256.WAA05253@ns1.ptd.net>

I arrived at FAR Hamfest at Gaithersburg, MD about 19:30 Saturday night and set up under the trees to duck the noon-day Sun. In the pre-dawn gloom this AM I fashioned a sign bearing the Boatanchors logo (a rough ARRL diamond with an anchor instead of a ground and the letters BA instead of ARRL) and a note for list subscribers to sign in. An amazing 21 folks signed my log. I was trooping the line a fair amount of the time and didn't get to meet about half of them. Some of these may be non-list members who signed in confusion. My apologies for any scrambled spelling:

NAME	CALL	COMMENTS
Al Klase	N3FRQ	
Philip Mc/g	W3SAK	
Paul Bernhardt	KF4FOR	BA-Net
Tom Bryan	N3ATA	
Dave Hirneisen	N3GKB	dhrrsn@prolog.net
Dennis Gibbs		dgibbs@rational.com
Ed Fletcher	N2ZPR	neat
David Ward	N3XRW	
John Burgwyn	W4WAW	
Fred Bohner		Oranges@frb.gov
Gene Katz	KC6BLD	
Mark Foltarz	KA4JVV	TUBES!
Charles Kadesch	W8KUX	chas@nmaa.org
Dan Martin	WB4GRA	dMARTIN@VISUALLINK.COM
Gary Chatter	WA9ZZZ	
Dave Williams	K7HMP	
Jim Harding	K3DKJ	
J D Delancy	K1ZAT	Zehiah Swamp, MD - WOW
Bob Adams	N7BW	" "
Dan Johnson	KC4EWT	AAAH!
Mark Melucas	KB0JPQ	Sold everything I brought.

I was impressed by how many of you picked up on the sign.
Anchorites at a hamfest must be an observant lot!

73,
Al

Al Klase - N3FRQ
alklase@prolog.net
Flemington, NJ

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: azoth@netcom.com (Az0th)
Subject: Re: Gaithersburg Attendees
Message-ID: <199609091409.KAA06511@netcom6.netcom.com>

Hiyall,

> I arrived at FAR Hamfest at Gaithersburg, MD about 19:30 Saturday
> night and set up under the trees to duck the noon-day Sun. In the pre-dawn
> gloom this AM I fashioned a sign bearing the Boatanchors logo (a rough ARRL
..
> I was impressed by how many of you picked up on the sign.
> Anchorites at a hamfest must be an observant lot!

With one exception, anyway. ;) I rolled in about 0800, and crisscrossed
the grounds until after noon, and never caught a glimpse of it, though
I did run into a bunch of BA guys. Shanks' ponies were taxed, though.

Quite a few boatanchors, not many clean enough to justify their price
tags, and many didn't seem to be moving well at all, including a cute
little Ranger II, a Viking II and at least one Valiant; a Ranger I sold
early, though. I saw a beautiful SW-3 that was only there to attract trades,
and many other old Nationals in at least good shape or better. Several Sky
Buddys with rusty dials, Defiants and Super Defiants. A plethora of HQ-129s,
a good HQ-170 and a badly repainted HQ-180, a couple of HQ-140s. A pretty
good HT-32B sold for \$250, and last I saw a nice HT-33 didn't sell for
\$550. There were other HT-32s and HT-37's, an SX-99, SX-100, SX-117, and
a couple of S-38Bs. Several TO's, including a 600 that tempted me sorely,
with a broken latch. A few Drakes, including a 2A/2AQ for \$125; several
chips out of the front panel and a missing 100kc xtal or I would've bought
it. It was that kind of low-cosmetic selection: where's the _nice_ stuff?
Did see one nice R-4C, but at \$350 it didn't even have all the filters;
you might've been able to get it for \$300.

There was the usual collection of overpriced J-38s and Vibroplexes, and
more than a few overpriced D-104s; did they suddenly become rare? Not
that much Collins gear, but a \$300 KWM-2 that 'needs work' caught my
attention, and a nice 75S-1 for about \$200. There was a R599/T599 pair,
and a \$500 FR-101D/FL-101 pair, as well as a loose FL-101. One guy had
several BC-348s, but I heard him say they were all more or less modified,
and they were, too. Lots of test gear, some computer bargains, but not
many things I couldn't live without. Came perilously close to buying

Mark Melucas' CR-91A, but couldn't figure out where I'd put the stuff I'd have to take out of my rack to make it fit. Damn shame.

I did pick up some reading material: a '43 Terman _Radio Engineer's Handbook_ for \$10, a '64 _SSB Principles and Circuits_ by Pappenfus et al, AWA #3, collected 77-78 HR. Found a NIB black D-104 (not the black&brass Night Eagle, but a black+chrome Special) with PTT and amp, for \$60; matches perfectly the black 10DA head I got from HR0.

Not a bad fest overall, and it's always good to talk with BA folks.

73 de KF4FJH - RF Buchanan

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
Subject: Gaithersburg Ramplings
Message-ID: <Pine.A32.3.91.960909063649.42430A-100000@ppdu.nrl.navy.mil>

BA Experts,

I was good to meet some of the internet BA members in person. Al Klase did a great job of having everyone sign in. I finally met Mike Hanz at Surplus Al's and Dave Knepper at the Collins Journal display.

I picked up a BC-342-C receiver from DeWitt Clay N4QNX for \$75. I already had the TM 11-850 and TM 11-4001 manuals for the BC-312/342 receivers. I could use the AC connector that matches with S02 on the back of the BC-342.

Cheers, Paul Bernhardt, KF4FOR

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: gc@fox.cen.com (Gary Chatters)
Subject: Gaithersburg: brief comments
Message-ID: <9609091504.AA05638@cen.com>

Just a couple of brief comments on Gaithersburg.

Weather was great, it almost always is, but the hurricane got through here just in time. Heard a rumor that attendance was down just a bit. Might be due to concern about the storm, but it was long gone.

I am not looking for any new projects so didn't look that close at things.

BA bought: Gonset Communicator IV for 50Mc. \$40. Thought that might go sooner, but VHF isn't quite as popular as the HF stuff.

Also got a Mite teleprinter.

Cheap tube stuff spotted: SX-117 receiver about \$70-\$80 (don't remember exactly) quite dirty, but probably cleanable. SR-150 transceiver with AC supply. \$100. Kind of hated to pass those up, but out of room in the apartment. Was surprised that they sat for so long.

Gary

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: W7FG <w7fg@autoinvoice.com>
Subject: Gates SA-39 Documentation needed
Message-ID: <199609090424.XAA04766@newton.eigen.net>

I'm trying to find documentation for a Gates SA-39 Speech Limiter for Wayne - NOTE - That's N Zero TE. Apparently the SA-39 was manufactured in the late 30's. Any one have Documentation on this Boat Anchor out there??

Gary

W7FG Vintage Manuals
3300 Wayside Drive
Bartlesville, Oklahoma 74006

Telephone: 918-333-3754
Orders Only: 800-807-6146

HomePage: <http://eigen.net/w7fg>

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Engbert Oord <engbert.oord@jet.uk>
Subject: Hallicrafters SX-10, Ultra-Skyrider
Message-ID: <9609090810.AA07656@jet.uk>

Good morning BAers

This Sunday I obtained a Hallicrafters SX-10 Ultra Skyrider.

When I came home I looked it up in Moore's book and was thrilled to learn, not only that this is an early one (1936), but also that apparently only some 200 hundred have been made.

It covers the frequency range 5.5 - 79 MHz and employs 10 valves and 1 X-tal to do so.

The front panel is in good shape with little wear. The case needs some touching up, has some spots of rust. Nothing too worrying.

The inside is another story however. To start with, one of the IF cans was loose and on inspection it turned out that a decidedly modern 1/8 watt resistor has found a resting place inside the can. Furthermore several of the wires emanating from the can are disconnected. One tube (6K7) was missing. The rectifier (5Z4) had passed on. On the tube tester it showed no emission whatsoever, but it runs very hot even without the HT applied. As it is a metal one I could not have a peak inside. However replacements were put in place. Some of the tubes in the I assume all metal tube lineup, had been replaced by glass types.

This is all simple to correct. What is more troublesome is that two tubes do not have their grids connected to anything. No loose wires to be spotted either. The X-tal container was broken open and partly demolished, so I fear for its health.

This receiver was handed over to me as being fuctional the last time it had been switched on!! I did not fully believe this however as the powercord evidently had been cut off inside the case. Nevermind.

However I would like to hear from people who have a similar receiver. One funny thing about this receiver is that it has a 4-gang tuning capacitor + bandsread fitted, with one of the sections removed. This seems to be original as it has three sets of coils to be switched.

What I desperately need is a circuit diagram of this thing so that I can reconnect the missing grid connections and the loose wires.

Ofcourse I have replaced all the waxed paper caps of which there were many. The two smoothing electrolytics were still in place but had been disconnected and replacement caps were under the chassis. I took these out and replaced them by Sprague chassis type electrolytics.

I will switch the receiver on (Variac) within the next few days and hope that the mains transformer is still with us.

Thank you for your patience

Engbert Oord , G7THB
JET Joint European Torus, Culham ,UK

Email : eo@jet.uk or engbert.oord@jet.uk

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Hamfest station
Message-ID: <01I99WCBIMEA003E4M@ACS.EKU.EDU>

Sitting in the operating position is the equipment I picked up at the Cincinnati hamfest a few weeks ago. A decent station for not all that much, plus some cleaning and a new line cord... and alignment and calibration.

I put the AF-68 Elmac transmitter back in its box yesterday. Tried the toothpaste and baking soda cleanup on the plastic dial (it was late, the auto parts places were closed, and I HAD this stuff. Also had one suggestion to use Sensodyne toothpaste since it was old equipment...). The dial face smoothed out pretty well, so now I can read the dial markings thru it. Putting out a solid 40 watts on CW and AM, and will go ahead and operate it for a while.

The receiver is the Hallicrafters SX-111, the bare bones SX-101A. Its controls are about as simple as any from that era; its stability, sensitivity and sound are excellent. Nice station combo! I shall be using it for "show and tell" at our radioclub meeting: there seem to be a bunch of newer hams out there who do not realize that there are other things besides transceivers, and that it doesn't have to cost an arm and a leg.

Hope to catch many of you on the air (and definitely in a couple of weeks it will be on "CX").

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: MODSTEPH@ACS.EKU.EDU

Subject: Hammarlund Super Pro 110 info needed
Message-ID: <01I98YFAFMAM002FU5@ACS.EKU.EDU>

Gang:

Thanks to list member P.J. Rovero I learned that the Super Pro is a model 110 by virtue of its having 16 tubes....

So I need ANY info (that info helped!) on the Super Pro 110: schematic, etc...

Again, thanks in advance (and thank you, P.J.)

73, A1 N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Hammarlund Super Pro info needed
Message-ID: <01I98V771XMG00317X@ACS.EKU.EDU>

Plain, old Super Pro, no extra numbers (e.g., 200, 400, 600). Metal tubes, etc. I need ANYthing on it - particularly schematic and alignment stuff; anything at all!

Thanks in advance!

73, A1 N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: Hammurland 170A schematic needed.
Message-ID: <Pine.OSF.3.93.960909141203.21545B-100000@govonca2.gov.on.ca>

Hello. When I got the 170A a nice photocopy of the manual was included. However, I recently reminded myself that the copy of the schematic (fold out 3 pages or so) was not done very well. The area at the page edges,

where the fold happened, was not overlap copied to capture the area at the page extremes. Thus I am missing info, just slightly, on the circuit layout and components illustrated at the middle 2 fold edges.

If someone is willing to do a nice copy (letter size or 11x17 inches) that gets all the info via 5 or 6 shots that truly overlap, so I can construct an overlapped full schematic 'folded' version for myself, I'd sure appreciate it.

All usual normal copy and mailing charges paid etc.

If there is something I can copy for you you might be missing etc. let me know and perhaps from what I have on hand (not THAT extensive, but one never knows) or a couple of my ham friends have, perhaps an exchange would work etc. as well.

Thanks.

Brien
Toronto
pepperb@gov.on.ca

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: Heathkit GR-78 Dial Drum Needed
Message-ID: <19960910.001926.4439.2.k7yha@juno.com>

Gang:

Got a NIB Heathkit GR-78 about 2 years ago and started assembly. The only thing that is missing is the ham band/SW band stick-on labels that go on the bandspread dial drum. Does anyone out there have a junked GR-78 that they could rob the bandspread dial drum off of? I wanted to use the SW band label, but at this point either ham band or SW band stick-on will do.

Tnx es 73 rich K7YHA

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: jperge@infinet.com (Joe Perge)
Subject: Heathkit IT-12 manual needed
Message-ID: <199609082004.QAA00181@mail1.infinet.com>

Found a couple of Heathkit IT-12s in non working condition at the Findlay(OH) hamfest. Can anybody provide a schematic and/or a manual for these?

Thanks, Joe WB8HWF
email jperge@infinet.com

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: HELP ON SP-600
Message-ID: <9609091830.aa18015@pcusa01.ecunet.org>

I seem to recall that the SP-600 really wanted a sweep alignment to get the IF's just right.

-John Sehring (09/09/96 12:02 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: don merz <71333.144@CompuServe.COM>
Subject: HRO-60, R-100A, misc FS
Message-ID: <960908224256_71333.144_DHB39-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

National HRO 60. Last of the massive communication receivers. Uses plug in coils to cover .5 - 32mc general coverage or 80 - 10 meters on the ham bands by flipping switches on the coils. This one has standard coils A - D and the associates dial-scales. Also included is the wooden box the 3 coils not in use are stored in and a manual photocopy. Working well. No modifications. Cabinet has many scratches but the overall look is still good--a 6.5 or 7 out of a possible 10. \$225

Knight R-100A receiver. 60's kit radio that was top-of-the-line for Knight. General coverage with separate bandsread dial. Cabinet is very good or excellent with some small marks. Front panel is near-mint. With matching S-8A speaker in same condition and original manual. Also includes custom clear plastic dust cover that the original owner made for it and a complete set of spare tubes (mixed new and used). Beautiful. \$130

Radiotron Designer's Handbook, 4th edition by F. Langford-Smith. An indispensable reference. \$50

Allied catalog. 1962. Covers dinged at edges, otherwise good. \$19

Allied catalog. 1967. Very good shape. \$19

ARRL Mini-Log. Spiral-bound, wallet sized station logbook. Unused.

1964. \$4 each ppd. 3 to sell.
Precession Apparatus "Servicing By Signal Substitution." This is
a signal generator handbook built around the Precision E-220-C
for which it can also serve as a user manual. But even without
the E-200-C, this is an excellent text. 100 pages. \$9 PPD
ARRL License Manual, 1968. Fair. \$2
ARRL Fifty Years of the ARRL, 1965. Excellent. \$6
Collins Knobs. These are the larger knobs used on the 75A4 and other
75A radios for Selectivity, Band switch, RF and AF Gain. \$9 each PPD
Heathkit HW-101 original manual. Like new. \$20
Heathkit SB-200 original manual. Like new. \$19

WANTED

TV-4/U tube tester manual
NC-300 cabinet in decent shape
Information on military spares box BX-19A. This has sockets for 9
octal tubes, 4 bayonet-base lamps and 2 fuses. It is black wrinkle
finish with a handle. All-steel construction. What radio is this for?
Trade used 845 tubes with "just-fair" emission for 801 tubes in like
condition.

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Emile Imberman/US/3Com
Subject: Info please
Message-ID: <9609092217.AA2397@hqsmtp2.ops.3com.com>

Hi,

I recently purchased a 51J3 in an old rack cab. The cabinet also
contained a BC-639-A (Signal Corps 100-160 MC.) and a General Electric Single
Sideband Selector. Anyone know anything about these guys. Thanks in advance for
the info.....Emile

Also, need a manual for the 51J3 or copy will do.

Emile_Imberman@3mail.3com.com...

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bob Marsh <bmarsh@hicom.net>
Subject: Is There an Elmer In The House? (NJ)
Message-ID: <3233FD0E.ADD@hicom.net>

Hi Everyone,

I'm stumped. When I got into amateur radio two years ago, learning about
radio circuits and electronics was going to be a major part of it. It seems,

however, that the basic process of troubleshooting tube circuits has got me totally lost. I have a good understanding of basic electricity and mechanics, and I've read quite a bit on radio/electronic theory.

The first thing I did was join a local radio club, but there aren't too many members who even own tube equipment, let alone restore it. Much of the help I get is like "replace this cap and see what happens", without an explanation on how to get to that particular component.

My learning pattern has always been by observing others and learning the theory as it's applied to something physical. I have the ability to learn this, but I feel like I'm operating in a vacuum here. This is in spite of the help I've received from BA listmembers and from my friend Jeff, VE1ZAC in Nova Scotia.

The restoration and maintenance of tube gear is a major piece of this hobby for me. I've made an investment in test equipment, radio gear and time, but I'm at a standoff. I'm at a point (I think) where it will all start to come together, but I need help from someone who can take me through the process and explain it along the way. Is there anyone in northern NJ willing to help me out? I live in West Caldwell (western Essex county). If possible, here at my QTH or I'll gladly pack up my test gear and stuff and schlep it wherever. I'm available during the day or most evenings except for Weds (Radio Club) and Thurs (Navy MARS Net Control).

Thanks a lot.

73 de Bob/KB2SGM

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: don merz <71333.144@CompuServe.COM>
Subject: Knobs Needed
Message-ID: <960909015611_71333.144_DHB60-13@CompuServe.COM>

WANTED:

Small knob for NC-300 (bottom right knob--RF Gain)
Main tuning knob for RCA ACR-155. Also need several small knobs for this radio.

Have Hallicrafters S-38, S-40 (and others) knobs to trade or pay cash or other tardses.

Thanks.

73, Don

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Robert Nickels <ranickel@mwci.net>
Subject: Learavian
Message-ID: <3234BCFD.6237@mwci.net>

Anyone know what a Learavian radio is? Picked up one from a friend in Dubugue Sunday. It's a little battery/AC portable of the variety that for some unknown reason seems to follow me home. This one tunes 200-400 Khz beacon band and 2-5 Mhz as well as bdcst band - obviously aimed at pilots (Bill Lear made radios before he moved on to bizjets...)

The odd thing is that this radio has a Mike jack! Can't see anything that looks like a transmitter, but what in the heck does a portable receiver need a mike jack for? It's model RM-402C - I'd love to know what this mike thing is all about!

73, Bob KE0T
ranickel@mwci.net

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: Let us STOP BLOWING 8A FUSES!!!!
Message-ID: <199609091302.JAA18514@mail.peterboro.net>

Hey Gang:

Go get a standard electrical lightbulb socket of any type, even an old lamp, cut off the plug, put two aligator clips on the wires that used to go to the plug.

Get a 100W standard bulb and put it in the socket. USE any continuity tester and make sure the switch is turned ON.

Connect the aligator clips across the 8 AM fuse holder.

Dont blow fuses. Watch the pretty light go dim as you remove the problems.

When dim, put in a bigger light bulb....

Good Luck,

Larry

va3lk / wa3zia

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Let us STOP BLOWING 8A FUSES!!!!!!
Message-ID: <Pine.GS0.3.93.960909081028.24524C-100000@uhunix5>

> Dont blow fuses. Watch the pretty light go dim as you remove the problems.
> When dim, put in a bigger light bulb....
> va3lk / wa3zia

Bigger? Don't you mean smaller (lower wattage)?
KH2PZ / KH6

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: MATCHBOX
Message-ID: <9609091830.aa17912@pcusa01.ecunet.org>

Matchboxes shine when it comes to transforming *balanced* loads.

I used to run nothing but resonant antennas fed strictly with coax. Now I'm a believer in 'put up the most wire you can, as high as you can.' I feed them with homebrew open wire balanced line.

This needs a) a good balun to get it back to unbalanced mode for use with most all ham gear and b) tune out the reactance to present 50 ohms resistive.

The Matchbox is excellent at doing both. And, you get some selectivity too, e.g. harmonic suppression.

The 275 Watt version handles the output of my pair of 572B's (in a Hammarlund HXL-1) most of the time. On some bands, just a bit of Matchbox detuning is necessary to eliminate a bit of arcing.

-John Sehring (09/09/96 11:39 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: Matched Tubes in BA Amp, experimental results
Message-ID: <199609092047.QAA11339@mail.peterboro.net>

Greetings:

The discussion about matching tubes in an amplifier allowed me to contribute the following. I have an HA-14, ancient Heathkit which uses two 572B tubes.

When I got the rig I was disappointed as the tubes were represented as being in good to excellent condition yet the maximum power output was 350W. There is no plate voltage meter or current meter so input is unknown except that the drive is a bit low being around 80 Watts, all this on 20 meters.

I observed that with about 50% duty cycle, CW at 40 wpm plus, the tubes glowed a dull to medium RED after about two minutes.

A friend of mine, and fellow list member found a pair of 572's that looked new, I decided to try them out. I mounted them in the amp, buttoned it back up turned it on, and low and behold 200W output under the same drive and keying conditions as the other tubes. These tubes get RED quick. Put the tubes back in the truck to be returned the next time we meet.

This morning I brought the dead tubes back to the island here and decided to find out what happened if I put a really dead tube in parallel with a weak tube (I consider my tubes as weak), and see what happened. Well not much, the dead tube glowed very bright RED quicker, the good tube did about normal, and the output was just over 200 W.

Put the good tube back in place and everything returned to normal, 350 w output.

Moral? Bad tubes do not make much RF and they tend to glow brightly!

Svetlana tubes are available from many places in the USA for \$60 each, wa4dru supplies "matched" pairs (what ever that means) for the same price.

Jerry, if your determined to have brightly red glowing tubes in your amp, I will send you these tubes and you can do so, but I think the time has come for some new tubes, for both of us really....

Larry
va3lk / wa3zia

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: Re: Matched Tubes in BA Amp, experimental results
Message-ID: <199609092130.RAA11848@mail.peterboro.net>

[illegible]

>the same result by torching three twenty dollar bills... Chinese tubes conform
>to the TANSTAAFL rule "there ain't no such thing as a free lunch.

>

>

>For what its worth,

>

>

>

>STUPID PILLS TAKEN BY ME, \$60 each PLEASE, SORRY,

Larry

va3lk , wa3zia

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996

From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: RE: Matching tubes, is it worth it?

Message-ID: <Pine.ULT.3.91.960909192626.6941E-1000000@dua150.kpt.emn.com>

On Fri, 6 Sep 1996, Dave Thompson, K4JRB, wrote:

> There has been a lot of discussion about matching tubes and several experts
> have told me recently that at least at RF it is not worth it!

>

> Several big gun Dx/Contesters (with all sorts of amps and tubes) have run
> matched tubes (generally 3-500Zs or 3CX800's) and then run new tube that
> were not matched before plugging them in. The result they report is
> not worth the extra money and effort.

I don't want to start a Holy War here, but big gun DX/Contesters are the
LAST people I would go to for advice on power tubes. Tubes like a pair
of 3-500Z's or 3CX800's, if run at legal power levels, should last the
typical ham many, many years. If these guys are swapping tubes early in
the game, it ought to say something about how they abuse them.

Dave then argued that matched tubes only produces a little extra power
output over unmatched tubes at the 1500 watt output level. That is
probably true but this has NOTHING to do with why you want to run matched
tubes.

Matched tubes should be used for two reasons: good tube life, and low
distortion. Tube life is probably fairly easy to understand. By
reasonably matching paralleled tubes, they draw approximately equal
currents and share the load equitably. Thus each tube is run within its
ratings and no single tube is called on to handle an excessive load. In
this manner, the better tube is not overloaded to the point that it
degrades and loses emission to drop its transconductance and match the

"weaker" tube.

The distortion issue is entirely different. This is where I would avoid ANY advice a big gun DX/Contester might give. Their only concern is to be LOUD. Fidelity and clean sound go out the window with speech processing. I would hope that the Boatanchor crowd is more concerned with spectral purity, good fidelity, and transmitting an exemplary signal than just being LOUD. [One local DX/Contester has asked me a number of times to build him an amplifier with one of my industrial triodes capable of 20 KW PEP output. So far, integrity has prevailed over cash.]

With matched tubes, less intermodulation distortion is possible. In fact, for the cleanest signal, a SINGLE tube is to be preferred to two tubes in parallel (push-pull linear operation is marginally better still).

> With regards to BA applications, one Drake line person I know that is
> active on 160 (he swears by the Drake Line for weak signal work) that
> even with the the finals for the T4X (6JB6) series that he notices
> little difference.

On 160 meters with sweep tubes, very close matching is probably not too necessary. Try the same radio on 10 meters. And also try it on a spectrum analyzer.

> He and I even compared finals in the Galaxy V (matched versus unmatched)
> and found in one instance that unmatched were better. We did
> find that the unmatched required a little neutralization on 10 meters
> especially using the remote VFO for split operation.

In what way were they better? Higher power output, perhaps? Certainly not in signal fidelity, signal bandwidth, or harmonic output. But then the Galaxy rigs were never known for these qualities. Neutralization is required whenever you change the finals. Thirty years ago, you might have gotten away with not re-adjusting the neutralization if you bought matched tubes from the rig's original manufacturer who probably bought a huge lot of tubes from the same manufacturing batch. With today's sweep tube scarcity, ALWAYS neutralize. You will find neutralization is much easier with matched tubes too.

With rigs like the Drake T-4X and others with paralleled sweep tubes, it is sometimes possible to get away with less than perfectly matched finals if you modify the radio to independently adjust the bias on each final tube. You need to be able to monitor the cathode or plate current on each tube separately. Adjust for equal idling currents under no signal. Then measure the currents under drive conditions. If the plate currents are within 5 to 10% of each other with full drive applied, you are probably safe. If you have a spectrum analyzer, you can play with the bias settings slightly to reduce your intermodulation distortion even further.

The modifications needed to do this are not trivial, however, and unless you want to make the needed changes, I would stick with matched tubes.

For Class-C operation, where the tubes basically act as a switch, exact matching is not nearly as important in paralleled tubes. In push-pull Class-C, tube matching is rarely necessary at all. In Classes-A, -AB, and B, where the tubes are called on for LINEAR amplification, matching will be important.

I hope most of our Boatanchorites take pride in their signals and are concerned with more than just being LOUD. We should be an example of the time when hams took great pains to have good fidelity. After all, why should some of these fine old rigs sound like a modern ricebox?

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: MECK - What the heck (etc.)
Message-ID: <01I98TIW095U00317X@ACS.EKU.EDU>

Marty, et al.

you wrote >>
NOT among these was a transmitter called the T60-1 that had a garden of 6L6s & a sprinkle of 6SN7s & 5R4s. B&W JEL-type plug-in coils and crystals would produce AM & CW effects.

Was it used in religious ceremonies, was there a Meck cult once?

Anyone out there hear of this? Want to start a club (Al Stephens)?

<<

Not this one. Marty - the H=W gang is going to keep me busy.
Oh, yeah - you got YOUR Bandmaster yet... :)

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Don Reaves <dr@cei.net>
Subject: Millen 90672 and 90651 manuals

Message-ID: <Pine.LNX.3.91.960909040427.21127B-100000@kc5jh.reaves.net>

Found a Millen 90672 Antenna Bridge at the Mena hamfest. So now I have a mate for my 90651. More importantly, it came with an original manual. I've shipped out about a dozen copies of the GDO manual, and will be happy to do the same for owners of the 90672. So anyone needing a 90651 or 90672 manual copy, let me know by email. Include your mailing address. Your cost will be nil, or if you prefer, send me something in return.

The bridge came with only 1 pick-up loop, a white one. The manual mentions two others, a large black one, and a small one. Anyone have a set of these to describe the physical dimensions of the two I'm missing, or better yet, a spare set?

Don Reaves WA5BBS dr@cei.net
46 Arbor Oaks Drive
N. Little Rock, AR 72120

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: flegler@pilot.msu.edu (Stanley L. Flegler)
Subject: RE:MSR-9/CV-1758 manual wanted
Message-ID: <199609092350.TAA68245@pilot08.cl.msu.edu>

Fair Radio in Lima, OH has manuals for these for \$10.00. They are listed as reproductions, but someone I steered in their direction ordered one earlier this year and they sent him an original copy. Look on p. 23 or their catalog. 73 Stan K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Gary Gitzen <garyg@cup.hp.com>
Subject: MSR-9/CV1758 Manual wanted
Message-ID: <199609092310.AA231780617@hpgaryg.cup.hp.com>

Hi Gang,

I recently purchased a MSR-9 (aka CV1758) "Mode Selector, Receiving" (aka SSB adaptor), made by the Technical Material Corp. Unfortunately it does not have a manual.

I am looking for a manual or photocopy for this beastie. Happy to pay normal copy and shipping costs. Note: this is similar to (but not close enough, sigh) the more common MSR-4/CV591.

Any pointers or sources appreciated. Thanks for any help.

Regards,
Gary <garyg@cup.hp.com>

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Glenn Finerman <GFINER@nms.com>
Subject: My new 75A-3!!!!
Message-ID: <s234428e.042@nms.com>

(continued from my last posting....)

Gave the guy a call who was advertising the 75A-3 "make offer".
Told me it was in good condition...."cabinet is scratched, missing paint, main tuning knob has chip missing from skirt, receiver is dirty inside, receiver works, has original manual and 3.1 mech. filter" (stock).
I told him before I drive 2.5 hrs to get there, what about the price?
He said "well, I was asking \$350.00 to \$400.00" ..I told him I wouldn't mind paying AROUND \$350.00, but the receiver would have to be in almost "mint" shape and that doesn't have anything to do with being dirty!
He said that was probably ok.....so I jumped in the car for that long 2.5 hr drive.....Made it alive....First look at the receiver showed that "chip" out of the main tuning dial turned out to be no kidding, half the knob was missing!!, popped the hood.....WOW! not only is it REALLY dirty, but it looks like something dripped inside a long time ago leaving corrosion, black stains and filth behind (never mentioned on the phone!). Oddly enough, only the aluminum parts seemed effected. (more on the clean-up later). I then asked him to plug it in and make it play!, which he did.. Hooked to an outside antenna, I could hear signals on 20 and 80 (higher bands not tested because of propagation conditions) but the noise level on 40 was MUCH lower than 20 and 80 indicating maybe a defective RF coil tap?..??Who knows.. Ok time to talk money..I flat out told him I wouldn't pay \$350.00 for this receiver because it obviously needs lots of work to make it "mint"..He started giving me that o'l "well you know there are Collins collectors out there who will pay lots of money...etc etc...yada yada.." I said well, maybe they ARE out there....but they wouldn't pay \$350.00 for this!!!!
I was already to drive home empty handed. He finally said "well make me an offer"I said \$250.....He said "NO"....last offer \$275.00.. er...umm...welllll.....OK!....That baby's mine for \$275.00...YES!!!
Now some of you may think that even that was too much based on my description above, but wait.....When I got it home I found it wasn't nearly as bad as I thought!.....

To be continued.....

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: Nasty COAX CABLE FAULT, Jerry Proc, Hint
Message-ID: <199609091302.JAA18519@mail.peterboro.net>

Gang:

I have just chased down a very nasty coax cable fault that perplexed me for a while yda. COAX was installed in a trailer. DC test showed everything was ok, center conductor continuity, shield continuity from connector to connector OK.

I have now entered the rat hole and climbed down the slippery ladder.

SWR IS AWFUL, 6 Gillion to 1.

Remove antenna, substitute dummy load, no not me just a resistor in a box!

SWR IS AWFUL, 6 Gillion to 1. (Oh the benefits of copy and paste!)

Trace the coax cable run as far as possible from both ends. Observe that both ends of the coax are bonded to the ground in the trailer. Further observe a repair to some body damage on the side of the trailer near where the coax seems to run. I can not get to the coax at this point and it is out of sight.

Owner is desperate so I rip open the repair. AH, and I was not saying that to the dentist....

Coax has been damaged, repaired by pulling back the insulation, twisting the center conductors together and soldering and wrapping in electricians black tape. Neatly done. Really to bad they never notice the shield in the coax!

Repair the SHIELD.

SWR is 1/1

A new friend is made, a day well spent.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: N9JCQ@aol.com
Subject: NC57 vs. NC57M
Message-ID: <960909093918_197501434@emout18.mail.aol.com>

Alright you National experts, whats the elctrical difference between an NC57 and an NC57M????? I have a NC-57M that I'm redoing and it appears that there maybe quite a difference. I have a NC-57 manual, but I'm not sure if the diffrence is factory made or user made. Any help would be greatly appreciated. Thanks.
Joe Rotman, N9JCQ

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: NC57 vs. NC57M
Message-ID: <199609091415.JAA14682@dlep1.itg.ti.com>

At 08:39 AM 9/9/96 -0500, you wrote:

>Alright you National experts, whats the elctrical difference between an NC57
>and an NC57M????? I have a NC-57M that I'm redoing and it appears that there
>maybe quite a difference. I have a NC-57 manual, but I'm not sure if the
>diffrence is factory made or user made. Any help would be greatly
>appreciated. Thanks.
>Joe Rotman, N9JCQ

Joe, the M stands for "Marine". The -57M has a low frequency range 100-400 kHz(?) or somesuch. This low frequency band replaces the 54 MHz band the NC-57 has. The front panel is the same on both (except for the dial, of course). Electrically and functionally the two are similar, but there are substantial circuit differences. The NC-57 is a transformer powered radio. The NC-57M is AC/DC to allow use in places without AC mains.

The AC/DC nature of the radio drove some interesting changes in the NC-57M. Many of the tubes are the high filament voltage equivalents of those in the NC-57. For some reason, National used a power resistor to finish off the filament string, though. (Beware, the back of the chassis where it is attached gets hot.) It's also worth mentioning that a portion of the chassis is isolated. (You might notice that a big chunk of the chassis appears to be on a cut-out!) I suppose National isolated the RF/IF section this way to reduce hum.

I think those are the major differences. Only other thing I can think of is that the big pointer knobs (bandswitch) are plastic on my NC-57M. (Provides a measure of protection from shock, I suppose.) Those knobs were metal on the NC-57 I used to have. Like you, my manual is for the NC-57, but I do

have a schematic for the NC-57M. Send me your address and I'll get a copy off to you.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "John H. Dilks III" <oldradio@worldnet.att.net>
Subject: New Book on Tubes!
Message-ID: <19960909012436.AAA23243@LOCALNAME>

.....A first report on the AWA meet by John Dilks, K2TQN.....

A N-E-W B-O-O-K o-n T-U-B-E-S was just announced at the Antique Wireless Association (AWA) Meet in Rochester, NY. Authored by Ludwell Sibley, well known expert on tubes and writer of many articles in the Old Timers Bulletin (OTB), Antique Radio Classified (ARC) and in many Radio Club newsletters across the USA and around the world.

"Tube Lore"

A Reference for Users and Collectors
by Ludwell Sibley

For serious tube users, collectors and admirers: a new look into tubes, 1920 to now. Here's what it contains:

- . Trends in Tube Design: History of major styles that shaped the industry - acorns, metals, loktals, miniatures and subminiature, lighthouse, nuvistors, compactrons. Includes odd design variants and special "reliable" types.
- . Receiving and Audio Tubes: "Prehistoric" types from 25 tiny manufacturers as well as the big guys - information on a lot of collectable tubes in one place. Basic tech data on lots of later types, both common and little known, and on early CRTs. Includes many types not found in ordinary tube manuals.
- . Military Types: A researched and insightful list of Signal Corps "VT" tubes; the biggest list yet seen of early Navy type numbers; coverage of Canadian "REL" tubes.
- . Unique Types from major makers: De Forest, Eimac, GE, Raytheon, RCA, Sylvania, Westinghouse. 13-page chapter on Western Electric, with new information.
- . Users Guide: Ideas on testing, adapting, repairing, reactivating,

identifying, the faint-marked ones, reading date codes, detecting the real maker of private-brand tubes, turning random lots into usable repair stock.
 . TV Sweep Tubes: Eight audio amps and 78 amateur transmitters/linears that use them; tech characteristics; hints on substituting as the originals get scarcer and more expensive.
 . Auction Prices: For collectible and audio tubes, from six major sales (Rochester, Dearborn, Highstown).
 Contains 186 pages, 8-1/2" x 11" softbound. Price, postpaid: \$19.95 in North America; \$24.95 elsewhere. Discounts available to clubs on group orders.
 Shipment starts September 30, 1996.

Send your name, address and a check made out to: Ludwell Sibley, 44 E. Main Street, Flemington, NJ 08822.

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.-----
|      73's from John H. Dilks, K2TQN, oldradio@worldnet.att.net      |
|      .^.      Collector of early Wireless Radios & Books.      .^.|
|      ( ~ )    Always looking for well-made Home-Brew Radios.  ( ~ )|
|      ___[ ]___< Member of the New Jersey Antique Radio Club >___[ ]___|
|      Meets the second Friday of each month at 7:30 p.m. in Freehold, NJ |
|-----|
|      NJARC is on the WEB -   http://www.globalent.net/oldradio   |
|      See above for our Fall Swapmeet & Auction info, on   Oct. 5, 1996 |
|-----'

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From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
 From: Glenn Finerman <GFINDER@nms.com>
 Subject: No R388 / 51J3 !!
 Message-ID: <s233f841.005@nms.com>

First I'd like to thank everyone who replied to my request for info/pricing on the R388/51J3. Finally got some money...made the phone call to arrange to set a final price and pickup the receiver, and guess what! The guys friend tells me "oh that receiver really doesn't belong to him, it's not for sale. WHAT!!!!? After all that?!! I said "you mean he doesn't know if he owns it or not??".....Oh yea! what a bunch of bull! I was ticked off!! Needless to say I won't be dealing with these jerks again!!! Well here it is Friday afternoon.....no receiver.... "Hey! maybe I should give that guy a call who was selling the 75A-3??" I said.....

See my next post for the continuing saga of..."The purchase of a Collins 75A-3" or "What you're told on the phone may not be what you see when you get there!!" (after you've driven 2 1/2 hours to get there!)

73 Glenn N2BJG GFINDER@NMS.COM

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Post-Gaithersburg Hamfest
Message-ID: <Pine.GS0.3.95L.960908171305.337E-100000@unixs5.cis.pitt.edu>

Arrived safely home this afternoon from Gaithersburg. Saw many of my Collins friends but saw little Collins equipment. Weather was hot and the crowd was large, as usual.

Ramblings:

Brand-new SM-3 microphone sold for \$150 at 8:30 AM
75A-2 receiver for \$265, I believe.
One 30L-1 for \$450
KWM-2A for \$500
Two R-390's were reported in the flea market

Not a lot of Collins on display. Where were the 75A-4's?
Are you listening Howard, W3HM? Were you there?

Did not see any pristine boatanchors that deserved a second look!
Everyone I spoke to were amazed at how escalated the prices seemed to be on the older tube equipment. No one seemed to be biting! ; but, a lot of lookers!

Overall, if you were looking for Collins, this was not the hamfest of choice - at least, for this year anyway. I wonder if we are seeing more and more of this equipment being sold over the swap nets and through networking?

To those from the boatanchor group who stopped by to say hello to me and my son, thanks, again for taking the time to stop by and visit.

Dave, W3BJZ
Publisher of the monthly Collins Journal

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: aa4rm%amos@mathcs.emory.edu (AA4RM's)
Subject: Prater's Mill Web Page

Message-ID: <9609081930.AA03675@amos>

No \$10 BC-610s this year

No \$18 SX-88s

No \$20 FMP-200s

One \$10 ARA command RX, 2 \$65 DX100s, and oceans more.

See THREE or more fotos @ <http://qsl.asti.com/BA-atl>

Tah,

Marty

- - - - -

Best return address: marty@aa4rm.radio.org

- - - - -

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: TEK0CH@aol.com
Subject: Prototype Collins 32V-3 ?
Message-ID: <960909082749_197470265@emout13.mail.aol.com>

At the September 7, 1996 Prater's Mill Hamfest, I purchases along with two DX-100s a Collins 32V-3 with somewhat of a modified 32V-2 case to allow for AC input and output connections on the back panel of the transmitter. The interesting aspect of this however is that the documentation plate on the rear has no serial number or model number engraved. It is clean and have never been engraved. Do you suppose this is the "original" 32V-3. After I attached a line cord and warmed it up for a bit, it fired right off at over 100 watts output. Oh, another interesting fact is that the plate meter, which is also marked Collins has a 300ma scale. My 32V-2 has a 500ma. scale.

Two 32V-3s that I have had in the past year or so had the bias adjustment pot accessed from the top between the oil filled and two electrolitic cans.

This 32V-3 has the bias adjustment on the rear panel about 4 inches above the bottom.

I really lucked out at this hamfest. I sold some stuff and came home with stuff and still had positive cashflow. All three transmittters after being warmed up seemed to work fairly well. Including one DX-100 that I was warned I would have to feed the animals that were using it for a home.

Prater's Mill is a great place for an old fashioned hamfest. Tailgating only on the grounds of an old civil war era grist mill. Things got started about 8:00 a.m. and wound up in the early afternoon. I took my digital camera along so you can see some pix of the Prater's Mill Hamfest on Marty Reynold's Web Page (AA4RM) at <http://qsl.asti.com/BA-atl>

73

Tom Koch - W4UOC
Atlanta, GA.

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: flegler@pilot.msu.edu (Stanley L. Flegler)
Subject: R-1051H receiver FS
Message-ID: <199609091246.IAA20295@pilot07.cl.msu.edu>

For Sale, Navy R-1051H receiver built in the 1980's. The H model is rare (most were destroyed by the Navy) and is the latest and best of the R1051 series which were built for SSB reception and digital modes in the classified Link 11/Tadil A military system. It has two tubes in the RF amp and the rest is solid state including IC chips, EPROMS, etc. It is a unique blend of solid state and hollow state combining the best of each. I have an official Navy xerox copy of the technical manual which is probably the only one in civilian hands. These radio are extremely stable with a drift of one part in 10 to the eighth per day! Everything works. It has a power cord and connector, the connector alone cost me \$18. It has an army LS-166/U 600 ohm speaker with new connectors for the LSB and USB outputs which cost me \$50. It also includes 600 ohm military headphones and four extra NOS 6AN5 tubes. I'll also include a xerox copy of the manual for the R-1051 through R-1051C series that I bought from Fair Radio for \$45. It makes interesting reading. It also includes spare stainless steel tuning chains. The only thing wrong with the radio is that the accessory connector on the back is broken. You only need this if you plan to use the receiver with the T-827 series exciter and the AM-3007 amplifier. I have located the exact replacement part number and a source, \$25, if you want to replace it. Reason for selling: I've become a Drake collector and something has to go! I'll sell everything for \$375 plus shipping. 73 Stan K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: flegler@pilot.msu.edu (Stanley L. Flegler)
Subject: R-1051H receiver Sold
Message-ID: <199609091813.OAA65725@pilot11.cl.msu.edu>

The R-1051H receiver sold shortly after I posted the message. My apologies to the others that have E-mailed me. Wish I had more to sell. 73 Stan
K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: philip mccoey <dgnova@erols.com>
Subject: R-391 versus R-390
Message-ID: <199609092127.RAA05389@smtp2.erols.com>

A friend of mine has just purchased a
R-391. He wants to know what the difference
is between the R-391 and the R-390
Philip McCoy W3SAK dgnova@erols.com

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
Subject: Re: R-391 versus R-390
Message-ID: <Pine.A32.3.91.960909190939.39906A-100000@ppdu.nrl.navy.mil>

Philip,

The R-391 receiver is identical to the R-390 except that the R-391 has
an 8 channel autotune mechanical memory. This memory requires an
external 24 Volt DC 3 amp power supply such as PP-629/URR.

This information is from the Boat Anchors Mil List edited by Terry
O,Laughlin, WB9GV.

Sincerely,
Paul Bernhardt, KF4FOR

On Mon, 9 Sep 1996, philip mccoey wrote:

> A friend of mine has just purchased a
> R-391. He wants to know what the difference
> is between the R-391 and the R-390
> Philip McCoy W3SAK dgnova@erols.com
>
>
>
>

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996

From: "Ray Perrin" <ray@pwgsc.gc.ca>
Subject: R-392 intermodulation
Message-ID: <vines.+lw7+Qd+BmA@ott24.ncr.pwgsc.gc.ca>

Gang,

A couple of weeks ago, there was a thread concerning the intermodulation performance of the Collins R-392 in comparison with other receivers. I knew I had read something on the subject, but I couldn't recall where. I finally found it.

I only have one copy of ER -- Number 20, December 1990. In that issue, there is an article by Walt Hutchens, KJ4KV, "The R-392 URR". His article states in part:

"Electronically, the one remarkable feature of the R-392 is the plate voltage. Absolutely alone among communications receivers, it uses the 28 volt primary supply as the 'high voltage' for the tubes. This low voltage gives lower stage gains, so the R-392 has six IF stages, rather than the three or four which are typical of receivers of this type."

Later in the article, he continues:

"The use of 28 volts on the plates can be questioned just for the increased distortion and reduced dynamic range which must come from operating tubes designed for use at higher voltages in this corner of their characteristics. This really is a problem: Arlington has strong local broadcast stations on 1390 kcs and 570 kcs and my R-392 (but no other receivers here) picks up a strong signal on 1960 kcs having the modulation of both."

The author further quotes from a military handbook on tubes that warns of extremely unpredictable operation of tubes operated with a very low plate voltage (28 volts).

As I was out of town last week, I postponed my BA mail. So if this information has already been provided, I apologize.

73,

Ray Perrin, VE3FN
ray@pwgsc.gc.ca

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: R390 - Collins or Motorola?
Message-ID: <199609091455.JAA26667@dlep1.itg.ti.com>

Thanks for all the comments, guys. It appears that my R390 is a genuine Collins unit.

Most everyone indicated that the nameplate shows the manufacturer, even when Motorola made it for Collins. Caution was advised because nameplates change and one person suggested checking the PTO manufacturer. In this case the PTO was also Collins. The only thing indicating a possibility of other than Collins is the mechanical dial readout unit which bears two part numbers, one for Motorola and one for Collins!

I choose to believe this R390 is a genuine Collins. Now, if only my R390A were an EAC unit... Oh well, at least it's got a COSMOS PTO.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: R390 - Collins or Motorola?
Message-ID: <199609091610.LAA18557@dlep1.itg.ti.com>

At 11:01 AM 9/9/96 CDT, you wrote:
>I hate to confuse things, and maybe it's me that's confused,
>but I could swear that my "new" R390 has a big fat Cosmos PTO.

Could it be that the original PTO was replaced? Perhaps Cosmos made spares for the R390. Then again, maybe someone retrofitted an R390A PTO into an R390. When I inquired about doing the same thing a few weeks ago, I was told that it's simply a matter of replacing the connectors.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: knudsen@gvmail.ih.lucent.com
Subject: Re: R390 - Collins or Motorola?
Message-ID: <9609091620.AA10759@bock.ih.lucent.com>

OK Bill, but I think this PT0 is a lot bigger than the R390A's.
Unless I'm visualizing my R388/51J3's PT0, which is pretty big too.
73, mike k aa9rg

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: george.rybicki@lerc.nasa.gov (George Rybicki)
Subject: R390 Alignment ?
Message-ID: <v01510100ae59c1979199@[139.88.134.25]>

I am having a little trouble getting my R390A first conversion oscillator to track properly, any help or suggestions appreciated.

I have good performance on the BC band and on 7 mcs but the set is insensitive between 2 and 7 mcs.
I have checked, changed and or swapped out the 6C4's. I checked the synchronization of the rf and 1st oscillator cams, ie they line up at 7000+ and the 1st oscillator cam position is at the minimum at 500 kcs and near the top at 7 mcs. I did the alignment with a URM25E using the test cable, injecting at test point E209, 18.25 mhz at 1250 kcs on the dial and 24.25 mhz 7250, the coils do peak. I also tuned the 17 mhz 1st oscillator transformer and observed a peak. The related xtals on the 2nd conversion oscillator also peak, so I dont think I have any dead xtals. While aligning the front ends I found the set is not dead on the 2-6 mhz bands, just not very sensitive, you can hear the signal if you inject it a a high enough level.

Someone out there may have had this problem before so please point me in the right dieection if you can.

Thanks George

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bill Sorsby <bill.sorsby@dlepl.itg.ti.com>
Subject: R390 Knobs from Fair Work Out Great
Message-ID: <199609091456.JAA26840@dlepl.itg.ti.com>

Greetings,

Since I'm worked up on R390's today, I'll mention that the set of R390 knobs I ordered from Fair worked out great. (OK, actually R390A knobs, but is there a difference?) At \$1.50 per knob I think I got a bargain. I ordered 33% overage, thinking that some would not be in real good shape. That turned out to be true for the medium sized knobs but not for the smaller knobs. Most of the smaller knobs had full paint on them, although a few needed to have the white stripe redone. (Thank you, lacquer stick!) Only one of the medium size knobs was in great shape. A couple of the medium size knobs were actually missing most of their black paint, but the rest had just minor paint wear around the edges. Overall, the appearance of the R390 with the new knobs is now "very good".

To get fifteen good knobs, I ordered twenty. I have three of the medium size knobs left over in "poor" condition and two of the smaller knobs left over in "fair" condition. I had planned to use a medium knob on the antenna adjustment, but opted for the smaller knob as I didn't have a medium knob in good enough condition. The manual shows a medium knob for the antenna, but the R390 I saw on someone's web page also had a small knob on the antenna adjustment. (Does anyone know which size knob the R390's were shipped with?)

Oh yeah, I managed to get an original R390 power connector too, so I'm a happy camper ;-)

Regards,
Bill Sorsby, N5BU

P.S. No connection with Fair Radio except as a mostly satisfied customer.

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: "Rick Blank" <rblank@legend.txdirect.net>
Subject: Re: R390 Knobs from Fair Work Out Great
Message-ID: <199609100020.TAA14478@legend.txdirect.net>

.....stuff deketed.....

> over in "fair" condition. I had planned to use a medium knob on the antenna
> adjustment, but opted for the smaller knob as I didn't have a medium knob in
> good enough condition. The manual shows a medium knob for the antenna, but
> the R390 I saw on someone's web page also had a small knob on the antenna
> adjustment. (Does anyone know which size knob the R390's were shipped with?)
>

> Regards,
> Bill Sorsby, N5BU

The 390's I have here all have the medium knob on the antenna trimmer.

Rick Blank, KI5SL	rblank@txdirect.net
2223 Blanco Road	KI5SL@K3WGF.STX.USA.NOAM
San Antonio, Texas 78212	AMSAT NA#26195

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: mail08458@pop.net (Bryan)
Subject: Re: R390 Knobs from Fair Work Out Great
Message-ID: <QQbgmo03842.199609100140@alterdial.UU.NET>

Bill,

All my R390/R390As have medium size knobs for the AF gain, RF gain, function, and bandwidth switches. The BFO pitch is either a medium size knob or a digital vernier (R390A Collins '55 contract). The Mcycle and Kcycle knobs are large, and all remaining knobs (including ant trim) are small.

Bryan Stephens
mail08458@pop.net

On Mon, 9 Sep 1996, Bill Sorsby <bill.sorsby@dlep1.itg.ti.com> wrote:

>adjustment. (Does anyone know which size knob the R390's were shipped with?)

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Dan Martin <dmartin@visuallink.com>
Subject: Ranger Knobs
Message-ID: <323353B4.5587@visuallink.com>

Hi, folks!

Spent all day looking at a jillion knobs on a billion tables at Gaithersburg and didn't find what I need. Anybody got a crystal knob cover for a Ranger (the "fake knob" that snaps in the panel over the crystal access hole) and one spare knob of any sort? On the knob alone, I really just need the little white dot insert that is pressed in the edge of the knob. One of mine has come out. In lieu of an original replacement for the white dot, anyone got any ideas on how to fabricate

something similar?

73 all
de Dan WB4GRA
Winchester VA

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: Ranger Knobs
Message-ID: <01I98YKKV4UC002FU5@ACS.EKU.EDU>

You wrote: >>

just need the little white dot insert that is pressed in the edge
of the knob. One of mine has come out. In lieu of an original
replacement for the white dot, anyone got any ideas on how to fabricate
<<

My Ranger had almost all the white thingies gone. I found that
the skewer sticks for shish-kabobs were round and just the right cir-
cumference. Trim to size, paint that off-white and glue in: voila!

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: aa4rm%amos@mathcs.emory.edu (AA4RM's)
Subject: Re: Ranger little white dot insert
Message-ID: <9609090426.AA03972@amos>

clipped lollipop stick

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: bharris@scs.philips.com (Brian Harris)
Subject: Re: Ranger little white dot insert
Message-ID: <23471480@scs.philips.com>

Although lollipop sticks are (typically) free, a closer replacement is
available at Michael's (the arts and crafts store chain), in the form of a
white, cylindrical plastic material of the correct diameter. This material
may be cut and filed to look and fit precisely like the original.

Brian Harris WA5UEK

----- Forward Header -----

Subject: Re: Ranger little white dot insert
Author: aa4rm%amos@mathcs.emory.edu (AA4RM's) at !SMTP/INTERNET
From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Edward J. Zeranski" <ejz@nosc.mil>
Subject: RA0-5 speaker
Message-ID: <2.2.32.19960909020017.0070c5d4@marlin.nosc.mil>

The little beast has a home! John Kolb had the 1st msg in the que.

Ed Zeranski ejz@marlin.nosc.mil, work
ezeran@cris.com home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!

This is a private opinion or statement and is nobody's fault but mine. No person, employer, or govt. should try to take credit for it!

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: frank_adams@onf.com (Frank Adams)
Subject: Re: Re: Larry's trying to lighten his place, -or- radios for sale...
Message-ID: <240713661.22724283@onf.com>

Gang,

Apologize my error in posting my reply to Larry to the group; 'twas 0450 (egg on face & crow for breakfast..).

Frank

--- OffRoad 1.0 unregistered

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: "John H. Dilks III" <oldradio@worldnet.att.net>
Subject: Report on the AWA meet in Rochester
Message-ID: <19960910001209.AAC5147@LOCALNAME>

To all..... Rochester AWA meet Report

It was my first trip to the mecca of o-l-d r-a-d-i-o . And I wasn't dissappointed, unless you count not having enough money to spend.

What ever you wanted in old radios, it was there. Parts, tubes, books, magazines, radiosets: Crystal, Regenerative, Superregenerative, TRF, Superhetrodynes (old and newer), Ham Transmitters and Receivers.

Among the Ham standouts in the flea-market were: a HT-9, many early Hallicrafters receivers, Hammarlunds, Nationals, several Home-brew transmitters: 1930 Breadboard (like new), 1930's 4-tube 46'er (I got this), Globe, one early National transmitter (pre '41), early kit radios, Johnson Viking's I, Ranger I and II's. Then at the auction on Thursday morning, low prices were offered and radios were sold, some were nice sets. << you can see the auction results posted on the NJ Antique Radio Web Page next week @ <http://www.globalent.net/oldradio> >>

The tube auction was also interesting, a DeForest Audion with one good filament going for \$11 hundred. << you can see the tube auction results on the NJARC Web page next week too. >>

My bring-home treasures were:

1) (biggie first) a 1930's transmitter using (I beleive) 4 #46 tubes; Osc, Buffer and two in parallel for the final. This is built on a small wooden frame with three horizontal wood panels. I was told it is called a "46'er" and was in a 1930's QST. It has all the original parts. The only two broken parts are two of the 5-pin Pilot surface mount bakelite sockets. Of course the old plywood needs to be reglued and pressed together. But other than that, it should work as-is..... and I can't wait to get it on the air!

2) A Spark Condenser in a wooden box. The plates are lead sheets separated by thin glass, coming out to two terminals.

3) A small Crystal set.

4) Four nice old speakers, including one totally made of wood with a driver in it's base and a Crossley Cone speaker. The two others were more common speakers.

5) A box containing 80 QST magazines from the 20's.

6) A box containing 75 Radio News magazines from the 30's.

7) A 1929 Pilot Radio Catalog showing the Super-Wasp and parts.

8) 1937 Montgomery Ward Electronic Catalog showing parts and Ham Radio Sets for sale.

9) Very old General Radio Wave Meter (for my Wave Meter Collection).

10) Ten Radio Design Magazines (by Pilot Radio Corp.)

11) Five nice old books to add to my collection including a first edition Drake's Cyclopedia.

12) Three WD-11 tube sockets, (one) to repair my 1920-21 John Reinartz receiver.

The crowd was pleasant and knowledgeable. More were over 60 years of age than under, I beleive. (of course I'm only 4 years away from that myself!)

I passed up microphones, keys, sounders, and just about everything a collector of radios would like to have. (There's always next year.)

73' John Dilks, K2TQN

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.-----.  
| 73's from John H. Dilks, K2TQN, oldradio@worldnet.att.net |  
| .^. Collector of early Wireless Radios & Books. .^. |  
| ( ~ ) Always looking for well-made Home-Brew Radios. ( ~ ) |  
| ___[ ]___< Member of the New Jersey Antique Radio Club >___[ ]___ |  
| Meets the second Friday of each month at 7:30 p.m. in Freehold, NJ |  
|-----|  
| NJARC is on the WEB - http://www.globalent.net/oldradio |  
| See above for our Fall Swapmeet & Auction info, on Oct. 5, 1996 |  
|-----|
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From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: tomrice@netcom.com (Tom R. Rice)
Subject: Repost: What should we have done? (fwd)
Message-ID: <199609100031.RAA27291@netcom13.netcom.com>

This was poated on the GlowBug list and, feeling that it's a topic of considerable importance to BA-ers, I've forwarded it to this list. Responses (or flames) cheerfully sought....

>

> >

> > Recently my ham club had an auction. One of the members had died and left
> > all his radio stuff to the club.

> >

> > There were some modern items, and they sold for good prices. A trader bought
> > two tables of tubes, presumably getting a bargain; but then he will have to
> > sit on the collection until somebody comes along wanting to buy a tube here
> > and there. And there was some test equipment and ex-military gear in pretty

> > good shape that sold well - tube testers especially. And there were some
> > boxes of resistors, capacitors, etc. that sold.
> >
> > Now the rest of the stuff - this guy was a builder! Everything he built was
> > really ugly, nothing you'd want to take home and use even if you could figure
> > out how to get it working. But he built more stuff than I could imagine
> > building in a lifetime. So there were more butchered up command sets and
> > power supplies and coils and variable condensers and stuff than you could
> > imagine. Must have been a dozen or more tuning units for BC-375, almost all
> > converted to some other use, and buckets and buckets of parts from more of
> > same. And after the stuff that sold well, it got down to a dollar for
> > everything on that table, and you have to take everything on the table,
> > and then we're loading up a trailer to take to the dump, so grab out anything
> > you want now.
> >
> > Now if we ever do this again, and chances are we will be doing it again some
> > time, what should we do? If I had known there was so much old stuff there
> > I would have tried to advertise the sale to the boatanchor crowd; but I
> > didn't know what there was until the night before the sale when I helped haul
> > it to the sale site. We thought about hauling the leftovers to a flea
> > market, but decided there was too much to haul and it was too junky looking
> > to be worth the haul anyway.
> >
>
>
>

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"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Richard A. George" <wa6jox@rain.org>
Subject: running tubes in parrallel
Message-ID: <Pine.SUN.3.94.960908165109.12218G-1000000@coyote.rain.org>

I was reading in a 1918 edition of " The Principles underlying Radio Communications". It seems that in 1916 radio telephone tests were conducted between arlington virgina and Hawaii. The Xmitter on this end ran many triode tubes in parrallel. They ran 9KW output measured at the antenna. I did a little figureing. This at best must have ran class C at

best of around 75% efficiency. Input power must have been over 11.250 KW!. It also states the plate voltage was 600 volts. I figure the plate I must have been around 18.75 amps!. The plate impedance comes out to around 32 ohms!. They also state the antenna current was 60 amps.

I have built many parallel tube amplifiers using 4cx-250's, 811a's, 1625's, and 3-500z's. I can really appreciate what this must have been to do.

Does anyone have any further information on this test? I found it very interesting.

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: "Deane D McIntyre" <dmcintyr@acs.ualgary.ca>
Subject: Re: running tubes in parallel
Message-ID: <9609091622.ZZ34430@ds1.acs.ualgary.ca>

> I was reading in a 1918 edition of " The Principles underlying Radio
> Communications". It seems that in 1916 radio telephone tests were
> conducted between arlington virgina and Hawaii. The Xmitter on this end
> ran many triode tubes in parallel. They ran 9KW output measured at the
> antenna. I did a little figureing. This at best must have ran class C at
> best of around 75% efficiency. Input power must have been over 11.250 KW!.
> It also states the plate voltage was 600 volts. I figure the plate I must
> have been around 18.75 amps!. The plate impedance comes out to around 32
> ohms!. They also state the antenna current was 60 amps.
> I have built many parallel tube amplifiers using 4cx-250's, 811a's,
> 1625's, and 3-500z's. I can really appreciate what this must have been to
> do.
> Does anyone have any further information on this test? I found it very
> interesting.

This transmitter is described along with a couple of photo of the rig (must be the Mother of all Boatanchors) in the Saga of the Vacuum Tube by Gerald E. Tyne.

It was first used in 1915 for radiotelephone tests between Arlington and Paris and later for tests to Hawaii. Quoting from the book:

"Before this time [WWI] the only extensive use of power tubes by the Western Electric Company had been in the famous transatlantic telephone tests in 1915, the so-called Arlington to Paris tests. These were one-way transmissiopns from Arlington, Virginia. A bank of 550 tubes, operating in parallel, was used in the final amplifier. To fully appreciate such

a feat as this and to realize the difficulties which had to be overcome by the engineers, one should hear the stories told by the men who did the job. There were problems of division of load, intertube wiring, parasitic oscillations, cooling and a host of others which can be imagined only by those who have tried to operate more than two tubes in parallel."

"The oscillator was a 101A, which fed through an intermediate amplifier into the final linear amplifier. The tubes used in this amplifier were known as type W, and the official designation was 204B Vacuum Tube. It operated with a filament current of 4-4.4 Amperes at approximately 9 volts. The plate voltage was 600 Volts maximum with plate current of 150 - 200 ma. Most of the tubes used at Arlington were unbased, although some based tubes were used."

"The most noticeable feature of the type W tube was the anode. A solid sheet metal plate of the required size would have contained much occluded gas difficult to remove with the evacuation technique of the day. Accordingly, the anode consisted of a piece of Climax ribbon bent back and forth. The two anodes were connected at the top, and the bottom connections were brought out separately. The tape was then heated by the passage of a current from an external source during the evacuation process and the occluded gases thus expelled. Another similarly constructed tube, used in the modulator panel during these tests, was known as the type S and had the code designation 204A."

I wonder what the record is for running 6AG7's in parallel, I have a stash of these..... Incidentally I don't know what wavelength the Arlington rig operated on, I assume several thousand meters.

Anyone know of a good BA related use for a 1/6 HP 1050 RPM 115 VAC induction motor I picked up for free on the weekend? Was thinking of a rotary spark gap rig like W1AW's Old Betsy but the local RI (Radio Inspector) would have something to say about this I am sure.

Just tell him that it was a big lamp dimmer.....

73, Deane D McIntyre VE6BPO
dmcintyr@acs.ucalgary.ca

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: Schematic needed for RCA Model 9K Receiver
Message-ID: <19960910.000906.4439.0.k7yha@juno.com>

Gang:

One of the guys at work wants me to restore a RCA Model 9K AM/SW receiver (circa mid to late 1930s). Desperately need a schematic of the beastie. Have it working, sort of, but the HUMMMMMMM is not good. Have recapped it but still have some things to iron out.

As usual, will pay postage and copying costs.

73 rich K7YHA

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: philip mccooy <dgnova@erols.com>
Subject: SCR-194
Message-ID: <199609082005.QAA29705@smtp1.erols.com>

In sunday's washington post magazine on page 9 there is a picture of the scr-194 sitting on a bridge in washington DC in Dec 8 1941. This is a back-pack readio, a forerunner of the walkie-talkie

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Eugene Rippen <soundval@foothill.net>
Subject: Sencore Tube Chart wanted
Message-ID: <3234B81F.34CA@foothill.net>

I need a tube chart for a Sencore Model "Continental MU-140"
I need a late one, past their number 331. I need it to check sweep tubes such as 6LF6 and 6LF6.
Copy will do fine.

Eugene Rippen
105 Donnington
Auburn, CA 95603 soundval@foothill.net

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: frank_adams@onf.com (Frank Adams)
Subject: Re: Tube Audio Folks, summary
Message-ID: <4086169598.22724759@onf.com>

>2) They use tubes in applications where they don't last very long. Such is the case with 6V6's in tube guitar amps, where I am told the

tubes only last about one performance. <

You already know I am no friend of those guys, but this one is utter BS;
played through amps with these tubes myself for many years, beat the shit out
of them, the lasted a LONG time. Just for good order's sake... :-)

Frank

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: aa4rm%amos@mathcs.emory.edu (AA4RM's)
Subject: Two TCS-sets
Message-ID: <9609091842.AA04072@amos>

Here's a pair of TCSs in the near neighborhood.

One complete Collins Navy TCS-6 set incl. control box, cables, 12V dynos!

Second TCS-12 TX & RX only.

No ant. tuner, no 110V supply

Manual copy.

Noooo, these aren't \$75/major-unit. The whole magilla is \$260!!

Downside is p/u only in S. Tennessee. Hope this doesn't start a TCS
sell-off. I'd hate to be the lad that started TCS black sunday (one
'retailer' asks \$800 for a complete 'system').

Guy not on net. Write me

Tks,

Marty

- - - - -

Best return address: marty@aa4rm.radio.org

- - - - -

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Updated want list
Message-ID: <199609090054.UAA20843@answerman.mindspring.com>

Hello Gang,

I am still looking for the following:

1. Two satin 9/16" knobs for the Heath SB-10 (carrier null and audio gain). These are not polished, but duller satin.
2. Power Supply (s) for older mobile gear. Any Elmac, Palco, WRL Universal or a bench supply that puts out 400 to 600V DC @ 250 mils and 6.3VAC @4A
PS-2V, M1070, M1080 are Elmac models that will work. I am getting a big bench supply from KQ4BY and have a breadboard version of the WRL, but am a purist and would like a matching or at least a similiar PS.

Respond to me via E-mail.

Thanks,

Dave K4JRB
thompson@mindspring.com

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Valiant, Done, Now for the License
Message-ID: <UPMAIL03.199609100010210359@msn.com>

Hi Gang, I probably won't transmit to many things for a month or so. (I know some say thats a Blessing). Got to study my code and theory.
I was up to 11wpm at one time, but I doubt I could copy 2 wpm now..
At any rate Thanks to all for advice and help with the Valiant and every other thing I have had to deal with.... Your a fine group of guys, and I only wished the best for all of you.
Your Friend Al
fritsche@msn.com

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996

From: Bob Rolfness <rsrolfne@atnet.net>
Subject: Valuation?
Message-ID: <32338731.DCF@atnet.net>

Just found a pair of receivers [low frequency and high or medium frequency] and a pair of 115 volt AC power supplies that make up the navy RBM-5 radio system. Also have a copy of the manual, and the original large wooden OD colored case for the system. Physically everything looks great. No dings, etc.

Any general idea as to its value?

73's Bob W7VZX

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: Variable Cap needed, free tubes
Message-ID: <32336385.2B76@ghgcorp.com>

Greetings Everyone...

Now that I know the antenna tuner schematics, I want to build one. Bad news: no suitable variable capacitor. The only one I have is probably around 30 pF.

Anyone have a 400 pF or so variable cap in the junk box they'd want to trade for something? I got tubes and assorted junk.

Also, anyone into pencil tubes? Found about 5 or 6 in the big tube box/goldmine that contained the 6DJ8's and I'll send them to a good home for postage. The "RULES OF WARE" apply. Some are Tek scope HV rectifiers I think...

Thanks and 73,
Ben

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From the computer of	Collector of fine firebottle
Benjamin D. Hall, Houston Texas	equipment, as well as other things
BDHall@GHGCorp.com -or-	involving Earth, Air, Water, and
BHall@GP802.JSC.NASA.gov	Fire.

"When you clock the human race with the stopwatch of history, it's a new record every time."

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: "John H. Dilks III" <oldradio@worldnet.att.net>
Subject: Wanted 2 Pilot 5 pin Tube Sockets
Message-ID: <19960910001209.AAB5147@LOCALNAME>

Wanted two Pilot 5 pin Tube Sockets for my newest (old) transmitter.

At the AWA meet in Rochester I had the good luck to find an original 1930's transmitter using (I beleive) 4 #46 tubes; Osc, Buffer and two in parallel for the final. This is built on a small wooden frame with three horizontal wood panels. I was told it is called a "46'er" and was in a 1930's QST. It has all the original parts. The only two broken parts are two of the 5-pin Pilot surface mount bakelite sockets. Of course the old plywood needs to be reglued and pressed together. But other than that, it should work as-is..... and I can't wait to get it on the air! I'll buy or trade for the tube sockets

BTW= if anybody knows which QST issue it was in, please let me know.

Thanks & 73' John Dilks, K2TQN

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.-----.  
|      73's from John H. Dilks, K2TQN, oldradio@worldnet.att.net      |  
|      .^.      Collector of early Wireless Radios & Books.      .^.      |  
|      ( ~ )    Always looking for well-made Home-Brew Radios.    ( ~ )    |  
|      ___[ ]___< Member of the New Jersey Antique Radio Club >___[ ]___ |  
|      Meets the second Friday of each month at 7:30 p.m. in Freehold, NJ |  
|-----|  
|      NJARC is on the WEB - http://www.globalent.net/oldradio |  
|      See above for our Fall Swapmeet & Auction info, on Oct. 5, 1996 |  
'-----'
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From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: "Arnoud van der Wel" <a.p.vanderwel@student.utwente.nl>
Subject: Wanted- 8393 Nuvistor
Message-ID: <199609091302.AA19610@driene.student.utwente.nl>

Hi Everybody,

For a Tek 1A7 Plugin, I am looking for an 8393 Nuvistor. I have three already and now need a fourth. They won't be matched but I suppose we'll have to do without that then. I also need a socket for this nuvistor.

I can swap for a 7586, a 6CW4, or a 7895.

Anybody?

Any help much appreciated.

Regards,

Arnoud

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*****
Arnoud van der Wel          Tel: +31-53-4895030
Calslaan 14B-43            Email: a.p.vanderwel@student.utwente.nl
7522 MB Enschede
The Netherlands
*****
```

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: Nick England <nick@cs.unc.edu>
Subject: wanted- CE 200V manual
Message-ID: <199609092010.QAA18331@altair.cs.unc.edu>

I'd like to get a copy of a manual for a Central Electronics 200V transmitter
- will trade Heath or Johnson manual or cash
Nick KD4CPL whose tower still stands amidst a lot of hurricane wreckage

Nick England KD4CPL nick@cs.unc.edu Univ. Of North Carolina
<http://www.cs.unc.edu/~nick> Chapel Hill NC

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996
From: carl yaffey <cyaffey@sprynet.com>
Subject: WANTED:32V3
Message-ID: <2.2.32.19960910021844.006f3f64@m1.sprynet.com>

I'm looking for a Collins 32V3. Any help out there?
73,
Carl K8NU

Carl Yaffey K8NU cyaffey@sprynet.com 614 268 6353 Columbus OH
Banjo player for One Riot One Ranger, independent software developer.

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From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: Bob Rolfness <rsrolfne@atnet.net>
Subject: What is it?
Message-ID: <32343912.73C@atnet.net>

Greetings to All -

Ran into a WWII box about the size of an old Motorila Radio with a tag calling it a: Signal Corps Rectifier RA-62-C. It is a self contained unit with a large switch on the front for various 115 and 230 volt input line voltages. And it is heavy!

Any information would be appreciated.

73's Bob W7VZX

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: jproc@worldlinx.com
Subject: RE: What is it?
Message-ID: <Chameleon.4.01.2.960909131312.jproc@jproc>

Bob,

I have a schematic only of the RA62-C. By the way, have you taken off the bottom cover from your unit? There may be a schematic pasted to it. If not, pass on your FAX number or snail mail address to receive a copy.

The RA62 provides +300 vdc, -150 Vdc and 14VDC. Suitable as an AC power supply for the SCR-522 transmitter/receiver and possibly other military BA's.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
HMCS Haida Naval Museum
Toronto, Ontario
'Looking for a 'AN/SRC-501'

From boatanchors@theporch.com Mon Sep 9 21:24:10 1996

From: w5tvw1@juno.com (Elliot "Sandy" V Blaize, Jr.)
Subject: Re: What is it?
Message-ID: <19960909.165951.7695.0.w5tvw1@juno.com>

I think that's a 115 VDC supply for local loop teletype circuits.
(If my memory serves me correctly!)
Comments/confirmations? anyone.

73

E. V. Sandy Blaize, W5TVW
Boat Anchors collected, restored, modified, traded and used!
w5tvw@juno.com -or- ebjr@worldnet.att.net
417 Ridgewood Drive, Metairie, LA., 70001
Looking for 860 tetrodes and a Hallicrafters SR-75

From boatanchors@theporch.com Mon Sep 9 03:37:25 1996
From: Bob Rolfness <rsrolfne@atnet.net>
Subject: Who wanted a 5736?
Message-ID: <3233A2D7.1AD@atnet.net>

Will the person who contacted me several weeks ago wanting a
Westinghouse type 5736 5 KW air cooled external anode triode please
email me.

Thanks

73's Bob W7VZX

From boatanchors@theporch.com Mon Sep 9 13:52:20 1996
From: CADV16@aol.com
Subject: WTB: 575 Mercury Vapor Rectifiers
Message-ID: <960909122552_197603615@emout10.mail.aol.com>

Hello Boatanchor People!

I am still working on the restoration of my Collins 20V-3 AM Broadcast transmitter. The original rectifier tubes used were a pair of 575A , mercury vapor tubes for the B+ supply. I have solid state replacements for these tubes, but I really like the purple glow of the 575. Try to go back to original! The low voltage supply uses a pair of 866 mercury vapor rectifiers, have them already! If you know where I could purchase a couple of pair of 575 tubes, please advise. Thank You in advance, contact Elliott Klein: E-Mail: CADV16@AOL.COM or call (602) 991-0575. P.S. The Collins 20V-3 is a real boatanchor at just under 1200 lbs! Going to be used for AM on 75 meters.